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# PATENT SPECIFICATION

Application Date : Aug. 28, 1920. No. 24,462 / 20. 172,079

Complete Left : May 28, 1921.

Complete Accepted : Nov. 28, 1921.

## PROVISIONAL SPECIFICATION.

### Improvements in Dental Bite-taking Appliances.

I, RAPHAEL NEFT, a subject of His Majesty the King of Great Britain and Ireland, of Stepney Street, Llanelli, Carmarthenshire, Wales, do hereby 5 declare the nature of this invention to be as follows :—

The invention relates to the wax blocks used by dentists for taking bites. In the present practice a separate wax block is 10 fitted for each patient and a bite is taken to obtain correct articulation.

According to the invention, permanent shells of aluminium or other suitable material are constructed conforming 15 respectively to the shape of the upper and lower alveolus.

When softened wax has been placed in the lower aluminium shell and it has been 20 pressed on the alveolus the wax block is complete.

To complete the upper block, softened wax is placed on the palatal side of the

upper aluminium shell and pressed on the upper alveolus. Softened wax is now placed on the opposite side of the shell 25 and a bite made with the lower shell.

The arrangement according to the invention economises time and saves wax and avoids the unpleasant taste due to the present day wax block in which the palate 30 and the tongue come into contact with the wax; the new wax block is encased in the metal shells and does not soften in the mouth. As only the alveolus touches the wax no unpleasant taste is experienced, 35 the upper wax block being shaped to prevent the wax from touching the palate.

The bite can be taken at once without waiting for models to be cast.

Dated this 23rd day of August, 1920. 40

ABEL & IMRAY,  
Agents for the Applicant.

## COMPLETE SPECIFICATION.

### Improvements in Dental Bite-taking Appliances.

I, RAPHAEL NEFT, a subject of His Majesty the King of Great Britain and Ireland, of Stepney Street, Llanelli, Carmarthenshire, Wales, do hereby 45 declare the nature of this invention and in what manner the same is to be performed, to be particularly described and 50 ascertained in and by the following statement :—

The invention relates to the wax blocks used by dentists for taking bites. In the usual practice a separate wax block is 55 fitted for each patient and a bite is taken to obtain correct articulation.

Price 1/-

This process involves the drawbacks that the patient is inconvenienced by the unpleasant taste of the warm wax and also time is lost by the necessity of preparing the bite blocks from the impression taken in plaster of paris. 60

To avoid these drawbacks, it has been proposed to provide bite plates formed of trough shaped sheet metal or other 65 material conforming to the shape of the gums and secured together back to back; but it is important for the convenience of operation that the plates should be capable of being separately inserted in 70

the mouth of the patient. It has also been proposed to provide at the extremity of each of the rods forming part of a mechanical articulator small holders for wax.

According to the invention, trough shaped wax containing members, of aluminium or other suitable material, conforming, respectively, to the shape of 10 the upper and lower alveolus, are provided which can be placed separately in the patient's mouth.

When softened wax has been placed in the lower aluminium shell and it has been 15 pressed on the alveolus, the wax block is complete.

To complete the upper block, softened wax is placed on the palatal side of the 20 upper aluminium shell and pressed on the upper alveolus. Softened wax is now placed on the opposite side of the shell and a bite made with the lower shell.

As only the alveolus touches the wax, no unpleasant taste is experienced, the 25 upper wax block being shaped to prevent the wax from touching the palate.

In the accompanying drawing which 30 illustrates the apparatus according to the invention, Figs. 1 and 2 are plan views of shells to be used, respectively, for insertion on the lower and upper jaws. Figs. 3-5 show diagrammatically the different parts of the process of taking a "bite".

A and B are the shells of trough shaped 35 section conforming in outline, respectively, to the lower and upper alveolus. A small quantity of softened wax C<sup>1</sup>, C<sup>2</sup> is placed in the shells which are then inserted in the mouth of the patient as 40 shown in Fig. 3. Softened wax D is then placed on the outside of the shell B as shown in Fig. 4 and the bite taken as shown in Fig. 5. The block D can then be employed in the usual manner for 45 obtaining a correct articulation of the plates.

The method can be used for edentulous or other cases.

Having now particularly described and 50 ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

For the purpose of "taking the bite" 55 in dental operations, separate trough shaped wax containing members of aluminium or other material, conforming, respectively, to the shape of the upper and lower alveolus, substantially as 60 described.

Dated this 23rd day of May, 1921.

ABEL & IMRAY,  
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Agents for the Applicant.

65

[This Drawing is a full-size reproduction of the Original.]

Fig. 1.

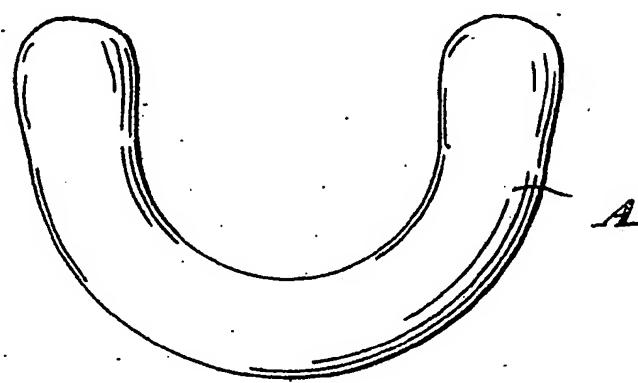


Fig. 2.

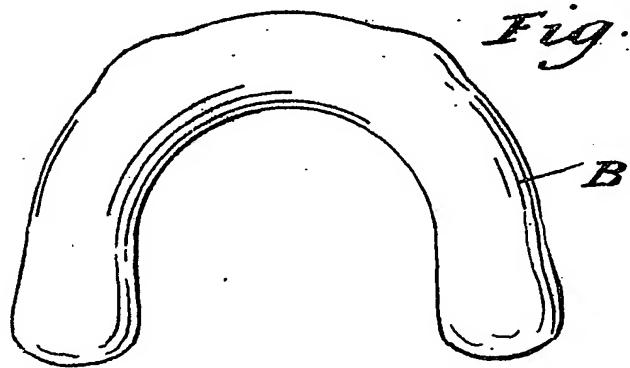


Fig. 3

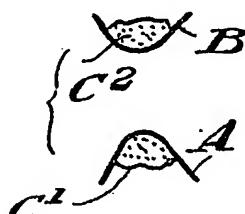


Fig. 4

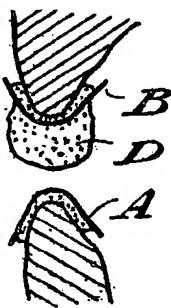


Fig. 5.

